

In the claims:

1. (Currently Amended) A ~~catalyst~~ carbon nanotube composition, comprising:

a catalyst comprising Co and Mo disposed on a support material wherein the majority of the Mo occurs as dispersed Mo oxide clusters and the majority of the Co initially occurs ~~in a CoMoO₄-like phase~~ as CoMoO₄ with the Co therein primarily in an octahedral configuration, and wherein the ~~CoMoO₄-like phase~~ CoMoO₄ occurs substantially disposed upon the dispersed Mo oxide clusters; and single walled carbon nanotubes disposed upon the catalyst.

2. (Currently Amended) The ~~catalyst~~ carbon nanotube composition of claim 1 wherein the support material of the catalyst is silica.

3. (Currently Amended) The ~~catalyst~~ carbon nanotube composition of claim 1 wherein the molar ratio of Co:Mo of the catalyst is less than 3:4.

4. (Currently Amended) The ~~catalyst~~ carbon nanotube composition of claim 1 wherein the support material of the catalyst is not a carbon nanotube.

5. (Currently Amended) The ~~catalyst~~ carbon nanotube composition of claim 1 wherein the Mo oxide clusters of the catalyst comprise Mo oxide clusters having a domain size between that of MoO₃ and heptamolybdate.

6-29 (Cancelled)

30. (New) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about .7 nm to about .9 nm.

31. (New) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about .9 nm to about 1.2 nm.

32. (New) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about 1.3 nm to about 1.7 nm.